U.S. Department
of Transportation
**Research and
Special Programs
Administration**

MAY 31 2000

400 Seventh Street, S.W.
Washington, D.C. 20590

DOT-E 9023
(SECOND REVISION)

EXPIRATION DATE: **April 30, 2002**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Eurotainer SA
Paris, France

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the transportation in commerce of certain non-DOT specification IMO Type 5 portable tanks for the shipment of the hazardous materials identified in paragraph 6 herein. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.

b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with other uses not associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.315(a), 178.245.

5. BASIS: This exemption is based on the application of Eurotainer US, Inc., submitted on behalf of Eurotainer SA dated February 15, 1999 submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	**Hazard Class/ Division**	**Identi-fication Number**	**Packing Group**
1, 1 Difluoroethane, or refrigerant gas R 152A	2.1	UN 1030	N/A
1,1,1-Trifluoroethane or Refrigerant gas R 143a	2.1	UN 2035	
1-Chloro-1,1-difluoroethanes or Refrigerant gas R 142b	2.1	UN 2517	
Chlorodifluoromethane or Refrigerant gas R 22	2.2	UN 1018	
1-Chloro-1,2,2,2-tetrafluoroethane or Refrigerant gas R 124	2.2	UN 1021	
Dichlorodifluoromethane, or Refrigerant gas R 12	2.2	UN 1028	
Hexafluoropropylene, compressed or refrigerant gas R 1216	2.2	UN 1858	
Chlorodifluoromethane and chloropentafluoroethane mixture, or Refrigerant gas R 502	2.2	UN 1973	
Dichlorodifluoromethane and difluoroethane azeotropic mixture or Refrigerant gas R 500	2.2	UN 2602	
1,1,1,2-Tetrafluoroethane or Refrigerant gas R 134a	2.2	UN 3159	
Liquified gas, n.o.s. (Chlorodifluoromethane and Chlorotetrafluoroethane) **Note 1**	2.2	UN 3163	
Liquified gas, n.o.s. (Pentafluoroethane and Tetrafluoroethane) **Note 2**	2.2	UN 3163	

Note:

1. Suva 39 or R-401a, Suva 66 or R-401b, and Suva 52 or R-401c are all blends of Chlorodifluoromethane,

Chlorotetrafluoroethane and R-152a. The differences are in percentage of each component. All are shipped under the same proper shipping name

2. Pentafluoroethane and Tetrafluoroethane: aka Suva HP-62, R-404a

7. SAFETY CONTROL MEASURES:

a. Packaging prescribed is a non-DOT specification portable tank, mounted in an ISO frame, designed and constructed in accordance with ANF - Industrie drawing 46050 191 001 Rev. E, other drawings, technical specifications and calculations on file with the OHMEA, and in compliance with the following:

(1) Code--Complies with DOT Specification 51 except that tanks are not ASME Code stamped.

(2) Insulation -- None

(3) Water Capacity (U.S. Gallons) -- 4,439

(4) Material -- French steel standard NFA 36205, designation A 52FP (Carbon steel); Yield strength - 52,200 psi; Tensile strength - 74,820 psi.

	(outside dia.)	X (length)	X (thickness)
(5) Tank Size (inches)	78.74	223.27	0.6102(min.)

Head Thickness -- 0.5630 (min.)
Weld Joint Efficiency -- 1.0
Corrosion Allowance -- 0.0
Number of Baffles -- 2

(6) Design Pressure (PSIG) -- 287
Note: Design pressure means "maximum allowable working pressure (MAWP)" as used in the ASME Code.

(7) Test Pressure, Minimum (PSIG) -- 430

(8) Openings -- Two(2), 7.5 inch diameter openings for pressure relief devices on the top; one(1), 23.7 inch diameter opening for the manhole on the head; one(1), 8.3 inch diameter opening for the liquid phase valve and one(1), 7.5 inch opening for the vapor phase valve on the bottom.

NOTE: Each bottom outlet valve shall be provided with a shear section that meets the requirements of 49 CFR 178.337-12.

(9) Tank surface area (square feet) -- 441.

(10) Pressure Relief Devices -- Two(2) 2.0 inch diameter spring loaded safety relief valves set to discharge at a pressure between 287 psig and 316 psig and having a minimum total relief device capacity of 1,695,120 SCFH.

Each pressure relief device must be marked with a start-to-discharge pressure in psig and a rated relief device capacity in SCFH.

(11) G-Loadings: Vertical down 2; Vertical up 2; Longitudinal 2; and Transverse 2.

(12) Maximum Gross Weight (pounds) -- 52,910.

(13) Maximum Commodity Weight (pounds) -- 37,258

(14) Tare Weight (pounds) -- 15,652

(15) Design Specific Gravity -- 1.01

b. TESTING - Each tank must be (i) visually inspected prior to each trip to insure that it has not been damaged on the previous trip; and (ii) retested and reinspected once every five years in accordance with 49 CFR 173.32 as prescribed for DOT Specification 51 portable tanks.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or change are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. Hydrostatic test certificates for each tank must be maintained by the owner or manufacturer at its principal business office and be made available to any representative

of the DOT upon request.

d. Each portable tank must be plainly marked on both sides near the middle, in letters at least two inches high on a contrasting background, "DOT-E 9023".

e. No product may be shipped that has venting requirements exceeding 1,695,120 SCFH. The venting capacity required for each product must be determined by the flow formulas contained in the Compressed Gas Association (CGA) pamphlet S-1.2.

f. A test report documenting a satisfactorily ISO prototype test for this tank design must be on file with the OHMEA prior to the first shipment.

g. The tank must be filled in accordance with the provisions of 49 CFR 173.315.

h. Portable tanks may not be transported in container-on-flat car (COFC) or trailer-on-flat car (TOFC) service except under conditions approved by the Associate Administrator for Safety, Federal Railroad Administration.

i. DOT-E 9023 must be stamped on the metal manufacturer's data plate on the line which reads "U.S. DOT Specification No.".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel used to transport packages covered by this exemption.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:

J. Suzanne Hedgepath

MAY 31 2000

Robert A. McGuire (DATE)
Acting Associate Administrator for
Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590. Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, S.W., Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: SC

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The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Chemical Industriesof Northern Greece, S.A., Thessaloniki, Greece (U.S. agent: Mary Hoyt Joyce, Washington, DC	Feb 28, 1999	MAY 3 1 2000	Apr 30, 2002

F. Suzanne Hedgespeth

Robert A. McGuire
Acting Associate Administrator for
Hazardous Materials Safety